

## Protons, Neutrons, and Electrons Practice Worksheet

Calculating the number of each particle in an atom:

# Protons = Atomic Number

# Electrons = Protons

# Neutrons = Atomic Mass – Atomic Number OR Big # - Small #



Use the periodic table to find the numbers of protons, neutrons, and electrons for atoms of the following elements.

Name of Element	Element Symbol	Mass Number	Atomic Number	Protons	Neutrons	Electrons
Boron	B	11	5	5	6	5
Sodium	Na	24	11	11	12	11
Yttrium	Y	89	39	39	50	39
Copper	Cu	64	29	29	35	29
Technetium	Tc	98	43	43	55	43
Lead	Pb	207	82	82	125	82
Thallium	Tm	204	81	81	123	81
Hydrogen	H	1	1	1	0	1
Carbon	C	12	6	6	6	6
Nitrogen	N	14	7	7	7	7
Barium	Ba	137	56	56	81	56
Calcium	Ca	40	20	20	20	20
Silicon	Si	28	14	14	14	14
Argon	Ar	40	18	18	22	18
Magnesium	Mg	24	12	12	12	12

# Answers Subatomic Physics Quiz

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The Advisor, Teacher-course Evaluation University of Illinois at Urbana-Champaign. Student Senate, 1971 Science Digest, 1972

**An Introduction to Physics** Harvard Project Physics, 1968 *Merrill Earth Science* Ralph M. Feather, Susan Leach Snyder, Dale T. Hesser, 1995 Science Reporter, 2000 **American Heritage of Invention & Technology**, 2005

A Tour of the Subatomic Zoo Cindy Schwarz, 1997 This popular book introduces the ideas terminology and techniques of high energy physics Insights into the structure of matter from the atom down to the quark are made accessible to readers who have no physics background With hardly a mathematical formula Ms Schwarz clearly explains the language and much of the substance of elementary particle physics FROM THE INTRODUCTION BY STANLEY GLASHOW HARVARD UNIVERSITY

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